

## A LIST OF OHIO SPIDERS.\*

By W. M. BARROWS.

The following list of 255 species of spiders is the result of five years of intermittent study of the spiders of the state. The work during the last two years has been carried on as a project of the Ohio Biological Survey.

I am much indebted to Mr. J. H. Emerton, of Boston, for his kindness in identifying the specimens collected in 1913, 1914, 1915, 1916, and part of 1917, and for much other help and advice. In the list, the specimens determined by Mr. Emerton are marked by an (E) placed after the name. A few specimens were determined by Mr. Nathan Banks. These are indicated by a (B). I am also indebted to the following persons for small collections made in various parts of the state: J. S. Houser, Wooster, Ohio; P. R. Lowry, Wooster, Ohio; R. J. Sim, Jefferson, Ohio; T. L. Guyton, Winterset, Guernsey Co., Ohio, and Chester I. Bliss, Sandusky, Erie Co., Ohio.

As far as possible the list follows the arrangement of the Catalogue of Nearctic Spiders by Nathan Banks, U. S. National Museum Bulletin 72, except that in each family the genera are here arranged alphabetically. Included in the list are the records of specimens collected in Ohio by Wm. Holden. These are recorded as notes by Emerton in a Collection of the Arachnological Writings of N. M. Hentz, Boston, 1875. These records are marked (W. H.). Two records of Attidæ are taken from the Peckham's Revision of the Attidæ of North America, and are indicated by a (P).

Several new species found in the collections will be described in a later paper.

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## THERAPHOSIDÆ.

**Atypus milberti** Walckenaer (B).

♀ Cedar Point, Ohio, August 15, 1913.

This specimen was taken from the stomach of a frog by Mr. C. J. Drake.

**Atypus niger** Hentz.

♂ Marietta, Ohio. (W. H.)

**Brachybothrium pacificum** Simon (B).

♂ ♀ Rockbridge, Ohio, September 7, 1915.

♀ Bainbridge, Ohio, August 17, 1917.

This very interesting "Folding-door Spider" builds its burrows along the bases of the moist overhanging cliffs. Its habits and life-history will be taken up in a separate paper. Up to the present time it appears to have been recorded only from the West Coast.

## PHOLCIDÆ.

**Pholcus phalangoides** Fuessly.

♂ ♀ Columbus, Ohio.

A cellar or house species. Specimens were taken in the cellar of the Denton Brothers Packing Co. plant.

**Spermophora meridionalis** Hentz.

Marietta, Ohio. (W. H.)

## DYSDERIDÆ.

**Ariadne bicolor** (Hentz).

♂ ♀ Cedar Point, Ohio, June 19, 1913. Ohio. (W. H.)

Common all over the state, building its tubular web in cracks of trees, buildings and rocks.

**Dysdera interrita** Hentz.

♂ ♀ Columbus, Ohio, June 13, 1913.

Common around Columbus, under boards and rocks.

## DRASSIDÆ.

**Callilepis imbecilla** Keyserling. (E).

♂ Cedar Point, Ohio, June 19, 1913.

♀ Columbus, Ohio, June 11, 1914.

**Cesonia bilineata** (Hentz). (E).

♀ Cedar Point, Ohio, August 18, 1914.

**Drassus hiemalis** Emerton.

♂ ♀ Buckeye Lake, Ohio, June 24, 1917.

**Gnaphosa bicolor** (Hentz).

♂ ♀ Ohio. (W. H.)

**Herpyllus ecclesiasticus** Hentz. (E).

♀ Rockbridge, Ohio, April 11, 1914.

♂ ♀ Ohio. (W. H.)

Widely distributed. Lives under loose dry bark of dead or injured trees. Probably winters in the adult state.

**Prosthesima atra** (Hentz). (E).

♂ ♀ Rockbridge, Ohio, June 12, 1915.

♂ Columbus, Ohio, August, 1914.

♀ Marietta, Ohio. (W. H.)

**Prosthesima depressa** (Emerton).

♂ ♀ Buckeye Lake, Ohio, June 24, 1917.

## CLUBIONIDÆ.

**Agroeca minuta** Banks.

♀ Flint Ravine, eleven miles north of Columbus, July 4, 1917.

**Anphaena rubra?** Emerton. (E).

Young, ♀ Rockbridge, Ohio, Fall, 1912.

**Castianeira bivittata** Keyserling. (E).

♀ Rockbridge, Ohio, June 1914.

♂ ♀ Ohio. (W. H.)

**Castianeira crocata** (Hentz). (E).

♂ ♀ Cedar Point, Ohio, July 4, 1914.

♀ Zanesville, Ohio. (W. H.)

A female was found laying eggs at Columbus on November 10, 1917. Late in the summer this is one of the commonest black or black and red spiders on the ground in dry fields and pastures.

**Castianeira pinnata** (Emerton).

♂ Columbus, Ohio, September 2, 1915.

**Castianeira trilineata** (Hentz).

♀ Athens, Ohio. (W. H.)

**Chiracanthium viride** Emerton. (E).

♂ ♀ Columbus, Ohio, July, 1916.

♀ Cedar Point, Ohio, July 20, 1903.

Taken on shrubs and low vegetation in the woods which fringe streams and in moist woods. Hibernates nearly full grown under leaves and rubbish on the ground.

**Clubiona crassipalpis** Keyserling. (E).

♀ Columbus, Ohio, June 11, 1917.

♂ ♀ Rockbridge, Ohio, June 18, 1916.

**Clubiona minutissima** Petrunkevitch. (E).

♂ ♀ Columbus, Ohio, June 23, 1916. Delaware, Ohio. Rockbridge, Ohio.

**Clubiona mixta** Emerton. (E).

♀ Cedar Point, Ohio, July 5, 1914.

♂ Cedar Point, Ohio, August 31, 1914.

**Clubiona ornata** Emerton.

♀ Wooster, Ohio, August-September, 1917.

Taken while sweeping in grassland.

**Clubiona pallens** Hentz. (E).

♂ Rockbridge, Ohio, June 18, 1916.

♀ Columbus, Ohio, July, 1916.

**Clubiona rubra** Emerton. (E).

♂ ♀ Columbus, Ohio, October 20, 1917.

These specimens are similar to the figures given by Emerton, Trans. Comm. Acad., Vol. VIII, 1890. Plate V, Fig. 6. They were found under logs and boards in a pasture.

**Clubiona tibialis** Emerton. (E).

♂ ♀ Cedar Point, Ohio.

**Gayenna (Anyphaena) calcarata** (Emerton). (E).

Erie Co., Ohio, 1915.

♂ ♀ Columbus, Ohio, July, 1916.

♂ ♀ Delaware, Ohio, June 24, 1916.

It is possible that two species are included under this name as two forms of males have been taken at the same time. These live in young trees in rather dense woods.

**Gayenna (Anyphaena) incerta** Keyserling. (E).

♀ Sugar Grove, Ohio, December 26, 1915.

Taken in sifting leaves under the snow.

**Gayenna (Anyphaena) saltabunda** (Hentz). (E).

♀ Rockbridge, Ohio, July 1, 1916.

**Micaria longipes** Emerton. (E).

♀ Columbus, Ohio, September 6, 1917.

♂ Sugar Grove, Ohio, September 11, 1917.

Found running in pastures and dry upland prairie. The young have been taken in sweeping tall grass.

**Phrurolithus alarius** (Hentz). (E).

♀ Columbus, Ohio, June 12, 1916.

♀ Zanesville, Ohio. (W. H.)

♂ Rockbridge, Ohio.

This and the following species are usually taken in moist leaves or rotting wood in deep woods.

**Phrurolithus borealis** Emerton. (E).

♂ ♀ Columbus, June 24, 1916.

**Phrurolithus formica** Banks. (E).

♀ and young. Columbus, Ohio, November 10, 1917, in ants nest.

♂ Rockbridge, Ohio, October 4, 1914.

These spiders were found living with the ant *Crematogaster lineolata*.

**Trachelas ruber** Keyserling. (B).

♂ Rockbridge, Ohio, June, 1914.

♀ Cedar Point, Ohio, August 19, 1914.

♀ Columbus, Ohio, October 22, 1917.

## AGLENIDÆ.

**Agelena naevia** Walckenaer. (E).

This species occurs everywhere. The mature males and females are found from June to October, the height of the mating season being September. The females lay the eggs in sheltered places, preferably under bark and usually remain near the eggs until they die some time in the early winter.

**Cicurina arcuata** Keyserling. (E).

♂ ♀ Sugar Grove, Ohio, December 26, 1915.

**Cicurina brevis** (Emerton). (E).

♂ Columbus, Ohio, November 10, 1917.

♀ Rockbridge, Ohio, July 1, 1916.

This species winters in the adult condition quite often with ants. Mr. R. J. Sim collected several pairs for me at Jefferson, Ohio, on Nov. 21, 1917. These were living peaceably with ants (*Acanthamyops latipes* Walsh.). Excepting that they are rather pale, they appear perfectly normal.

**Cicurina pallida** Keyserling. (E).

♂ ♀ Sugar Grove, Ohio, December 26, 1915.

**Coelotes calcaratus** Keyserling. (E).

♀ Rockbridge, Ohio, October 4, 1914.

**Coelotes montanus** Emerton. (E).

♂ ♀ Rockbridge, Ohio, April 11, 1914.

**Coras medicinalis** (Hentz). (E).

Young, Cedar Point, Ohio, August 6, 1910.

♂ ♀ Columbus, Ohio, November 10, 1917.

♀ Sugar Grove, Ohio, December 26, 1915.

**Hahn timer agilis** Keyserling. (E).

♀ Columbus, Ohio, November 10, 1917.

♂ Sugar Grove, Ohio, December 26, 1915.

**Hahn timer cinerea** Emerton. (E).

♀ Columbus, Ohio, June 12, 1916.

Sugar Grove, Ohio, July, 1915.

**Tegenaria derhami** (Scopoli). (E).

♂ Columbus, Ohio, October 3, 1915.

## DICTYNIDÆ.

**Amaurobius sylvestris** Emerton. (E).

♀ Columbus, Ohio, November 10, 1917.

This spider is found under logs, in crevices of bark and rocks all all over the state.

**Argenna obesa** (?) Emerton. (E).

Trans. Conn. Acad. Vol. 16, p. 399.

♂ Rockbridge, Ohio, June 12, 1915.

Mr. Emerton comments on this as follows: "You have one little *Argenna* like our coast species, but twice as large as any I have seen. Here it lives under straw along the shore and around the salt marshes in exactly the same situations as *Lophocarenum arenarium* at Sandusky"

**Dictyna frondea** Emerton. (E).

♀ Cedar Point, Ohio.

**Dictyna longispina** Emerton. (E).

♂ ♀ Delaware, Ohio, June 30, 1917.

♀ Columbus, Ohio, May 24, 1916.

Rather common in woods near the Olentangy River where it occurs in hollow stems and under bark during May and June,

**Dictyna minuta** Emerton.

♂ ♀ Columbus, Ohio, June 13, 1917.

**Dictyna muraria** Emerton.

♂ ♀ Wooster, Ohio.

♂ ♀ Buckeye Lake, Ohio, June 14, 1917.

**Dictyna rubra** Emerton. (E).

♂ Columbus, Ohio, June 24, 1916.

**Dictyna volupis** Keyserling.

♂ ♀ Columbus, Ohio, June 11, 1917.

A very common and abundant species. It winters nearly mature and becomes mature early in the spring.

**Titanoeca americana** Emerton. (E).

♀ Cedar Point, Ohio.

**Titanoeca brunnea** Emerton.

♀ Delaware, Ohio, June 30, 1917.

## THERIDIIDÆ.

**Ancylorhnanis hirsuta** (Emerton). (E).

♂ Rockbridge, Ohio, July 1, 1916.

**Argyrodes cancellatum** (Hentz). (E).

♂ ♀ Clifton, Ohio, July 14, 1917.

♂ Rockbridge, Ohio, June 1914.

This pair was taken from the web of an *Acrosoma spinea* in rather deep woods. Other specimens have been taken at Cedar Point and Rockbridge.

**Argyrodes trigonum** (Hentz). (E).

Rockbridge, Ohio, October 4, 1914.

♀ Cedar Point, Ohio, August, 1913.

♂ ♀ Sugar Grove, Ohio, July 15, 1915.

Very common in the webs of *Frontinella communis* in the Sugar Grove region.

**Asagena americana** Emerton. (E).

♀ Columbus, Ohio, June 13, 1917.

♂ Columbus, Ohio, June 10, 1917.

**Ceratinella brunnea** Emerton. (E).

♀ Columbus, Ohio, June 9, 1916.

**Ceratinella emertoni** Cambridge. (E).

♂ ♀ Columbus, Ohio, May 24, 1916.

**Ceratinella fissiceps** (Cambridge).

♀ Sugar Grove, Ohio, June 10, 1917.

**Ceratinella minuta** Emerton.

♀ Flint Ravine six miles north of Columbus, Ohio.

**Ceratinopsis alternatus** Emerton. (E).

♂ ♀ Rockbridge, Ohio, June 27, 1917.

**Ceratinopsis interpres** Cambridge. (E).

♂ ♀ Rockbridge, Ohio, June 12 and 18, 1915.

Common on the Mountain Laurel and Huckleberry bushes in the dry upland woods of Hocking and Fairfield Counties.

**Ceratinopsis nigripalpis** Emerton. (E).

♂ ♀ Rockbridge, Ohio, June 18, 1916.

Sugar Grove, Ohio, July 4, 1915.

**Cornicularia pallida** Emerton.

♂ Sugar Grove, Ohio, June 10, 1917.

**Crustulina guttata** (Emerton). (E).

♀ Columbus, Ohio, October, 1917.

Found under the edges of logs and stones in low pastures.

**Enoplognatha marmorata** (Emerton). (E).

♀ Cedar Point, Ohio, July 4, 1914.

♀ Columbus, Ohio.

Found in the usual places, under edges of logs, stones and boards in the edges of woods near the river.

**Erigone autumnalis** Emerton. (E).

♂ Columbus, Ohio, October 16, 1917.

**Erigone dentigera** Cambridge.

♂ Delaware, Ohio, June 28, 1916.

**Erigone longipalpis** Emerton. (E).

♂ ♀ Sugar Grove, Ohio, April, 1913.

**Euryopis argentea** Emerton. (E).

♀ Sugar Grove, Ohio, July 15, 1915.

**Euryopis funerea** Emerton. (E).

♂ Rockbridge, Ohio, July 1, 1916.

♀ Cedar Point, Ohio, August, 1913.

Very abundant in July on the lower branches of trees on the edges of a swamp one mile south of Delaware.

**Latrodectus mactans** (Fabricius). (E).

♂ ♀ Rockbridge, Ohio, October 4, 1914.

♂ N. Kenova, Ohio, August 24, 1914.

♀ Ohio. (W. H.).

♀ Marietta, Ohio. (W. H.)

Very common on the ground in the upland prairies of Hocking County.

**Lophocarenum arenarium** Emerton. (E).

Trans. Conn. Acad. Arts and Sci., Vol. 16, p. 391.

♀ Cedar Point.

This specimen was taken under rubbish at the waters edge on Sandusky Bay, Sandusky, Ohio. It has been found by Mr. Emerton on the salt marshes near Lynn, Mass., where it lives in quite similar situations.

**Lophocarenum (Diplocephalus) erigonoides** Emerton. (E).

♂ ♀ Columbus, Ohio, October 20, 1917.

♂ ♀ Buckeye Lake, June 24, 1917.

Specimens have been taken on the ground, in the sweep-net, and from fences while they were ballooning.

**Lophocarenum (Hypselistes) florens** (Cambridge).

♀ August-September, 1917, Wooster, Ohio.

Taken in sweeping in grassland.

**Pedanostethus riparius** Keyserling.

♂ ♀ Columbus, Ohio, September 22, 1917.

♂ ♀ Rockbridge, Ohio, June 12, 1915.

Very common in the moist woods which fringe the Olentangy river where it lives under rocks and boards.

**Pedanostethus terrestris** Emerton. (E).

Jour. N. Y. Ent. Soc. XXII, p. 262.

♂ ♀ Bainbridge, Ohio, August 17, 1917.

Found under stones and leaves in a very deep moist ravine.

**Spintharus flavidus** Hentz.

♂ Brinkhaven, Ohio, September 15, 1917.

**Spiropalpus (Cornicularia) spiralis** Emerton. (E).

♂ Columbus, Ohio, June 23, 1916.

**Steatoda borealis** (Hentz). (E)

Cedar Point, Columbus, Rockbridge, Brinkhaven, Ohio.  
(W. H.)

Besides living under bark and boards in most moist situations, this species makes a very large tangled web about a foot from the ground in the very thick growth of nettles and other plants in the low moist woods along the Olentangy River. They hibernate as adults.

**Teutana triangulosa** (Walckenaer).

♂ ♀ Columbus, Ohio, October 1915.

♂ ♀ Lancaster, Ohio. (W. H.)

Rather common in corners and behind cases in the Botany and Zoology Building, Ohio State University.

**Theridium differens** Emerton. (E).

♂ Rockbridge, Ohio, June 18, 1916.

♂ ♀ Delaware, Ohio, June 28, 1916.

♂ Cedar Point, Ohio, August 1, 1913.

**Theridium frondeum** Hentz. (E).

♀ Cedar Point, Ohio, July 4, 1914.

♂ ♀ Delaware, Ohio, June 28, 1916.

♀ New Lexington, Ohio, (W. H.)

Widely distributed. Usually found in tall grass and shrubs near water.

**Theridium kentuckyense** Keyserling.(E).

♂ ♀ Rockbridge, Ohio, July 18, 1916.

Found on ferns and other vegetation in the extremely moist dark ravines of Hocking County.

**Theridium murarium** Emerton. (E).

♀ Columbus, Ohio, June 9, 1916.

Cedar Point, Ohio.

**Theridium rupicola** Emerton. (E).

♂ ♀ Rockbridge, Ohio, June, 1914.

♀ Sugar Grove, Ohio, July 15, 1915.

**Theridium spirale** Emerton. (E).

♂ Columbus, Ohio, August, 1914.



**Theridium tepidariorum** Koch. (E).

♂ ♀ Buckeye Lake, Ohio, June 24, 1917.

♂ ♀ Cedar Point, Ohio, August 6, 1910.

♂ ♀ Ohio. (J. H. E.)

These spiders are commonly found in houses and other buildings. On the cliffs at Clifton Gorge, Bainbridge, Rockbridge and Brinkhaven, however, they appear to be living in the "wild" condition, not in any way associated with man.

**Theridula sphaerula** (Hentz). (E).

♂ Bainbridge, Ohio, August 17, 1917.

**Tmeticus (Gonglydium) flaveolens** Emerton. (E).

♂ Columbus, Ohio, November 10, 1917.

These were taken ballooning.

**Tmeticus longisetosus** Emerton.

♂ Columbus, Ohio, March 12, 1918.

Taken near the river under a sheet of tin.

**Tmeticus probatus** (Cambridge). (E).

♂ ♀ Rockbridge, Ohio, July 27, 1917.

**Tmeticus terrestris** Emerton.

♂ ♀ Columbus, Ohio, March 12, 1918.

**Tmeticus tridentatus** Emerton.

♂ Rockbridge, Ohio, September 30, 1917.

**Tmeticus trilobatus** Emerton.

♂ Columbus, Ohio, March 12, 1918.

**Ulesanis americanus** Emerton. (E).

♂ Rockbridge, Ohio, June 18, 1916.

## LINYPHIIDÆ.

**Bathyphantes micaria** Emerton. (E).**Bathyphantes concolor** (Reuss). (E).

♂ Columbus, Ohio, Oct. 28, 1917.

**Bathyphantes alboventris** (Banks). (E).

♂ ♀ Columbus, Ohio, June 11, 1917.

Hibernates in the adult state.

**Bathyphantes nigrina** (Emerton). (E).

♂ Columbus, Ohio, October 20, 1917.

♀ Columbus, Ohio, June 11, 1917.

Very common in moist situations near or on the ground under rubbish or matted vegetation. Some of the males and many of the females survive the winter.

**Drapetisca socialis** Emerton.

♀ Rockbridge, Ohio, September 30, 1917.

Found running on the bark of beech trees growing with hemlocks in the moist ravines in Fairfield and Hocking Counties. I have taken specimens in the same kind of situations at Forest Hills, Mass.

**Frontinella (Linyphia) communis** (Hentz). (E).

♂ Sugar Grove, Ohio, July 15, 1915.

These spiders build tall rather striking dome webs, sometimes three feet high in the pine woods west of Sugar Grove in the same situations in which the Pink Lady's Slipper grows.

**Lepthyphantes nebulosa** (Sundervall).

♂ ♀ Columbus, Ohio, October 28, 1917.

This pair was found copulating under a flat stone near the river.

**Linyphia (Diplosytla) brevipes** (Keyserling).

♂ ♀ Columbus, Ohio, March 12, 1918.

Found under tin and boards near the river.

**Linyphia (Nerienne) clathrata** Sundervall. (E).

♂ ♀ Columbus, Ohio, June 13, 1917.

♂ Rockbridge, Ohio, June 12, 1915.

♀ Buckeye Lake, Ohio, June 24, 1917.

In the woodlot north of the University this species builds its webs in the angles between the roots of the large trees.

**Linyphia mandibulata** Emerton. (E).

♂ ♀ Jefferson, Ohio.

♂ Sugar Grove, Ohio, April, 1913.

**Linyphia marginata** Koch. (E).

♂ ♀ Rockbridge, Ohio, June, 1914.

♂ ♀ Ohio. (W. H.)

Very common in the moist dense woods.

**Linyphia phrygiana** Koch. (E).

Young, Rockbridge, Ohio, May 27, 1916.

♀ Loudonville, Ohio, June 6, 1915.

♂ ♀ Ohio. (W. H.)

Found only on the undersides of branches in very moist woods, usually close to streams. This species here does not live in the varied situations in which it is found in New England. Matures early in May.

**Microneta cornupalpis** (Cambridge).

♂ Columbus, Ohio, November 10, 1917.

**Nesticus pallidus** Emerton. (E).

♂ ♀ Columbus, Ohio, June 24, 1917.

Found under sheets of tin and boards near the river.

**Stemonyphantes bucculenta** (Clerck).

♂ ♀ Columbus, Ohio, March 26, 1918.

**Tapinopa bilineata** Banks.

♂ Rockbridge, Ohio, September 30, 1917.

♂ Columbus, Ohio, August, 1917 (immature).

## MIMETIDÆ.

**Mimetes interfector** Hentz. (E).

♂ Columbus, Ohio, August, 1917.

♂ Sugar Grove, Ohio, July 15, 1915.

Adults and young have been taken several times from the tops of weeds.

## TETRAGNATHIDÆ.

**Eugnatha pallidula** Banks.

♂ ♀ Buckeye Lake, Ohio, July 21, 1917.

**Eugnatha straminea** (Emerton). (E).

♂ ♀ Rockbridge, Ohio, June, 1916.

♂ Cedar Point, Ohio.

**Eugnatha vermiformis** (Emerton). (E).

Erie County, Ohio, 1915; young, Buckeye Lake, Ohio, Sept. 13, 1913.

**Pachygantha tristriata** Koch. (E).

♂ ♀ Columbus, Ohio, October 20, 1917.

♂ Rockbridge, Ohio, Fall, 1912.

Found under logs in grassland and pastures. They hibernate as adults.

**Tetragantha extensa** (Linnaeus). (E).

♂ Delaware, Ohio, June 18, 1916.

♂ ♀ Cedar Point, Ohio, August 6, 1910.

**Tetragantha grallator** Hentz. (E).

♂ ♀ Columbus, Ohio, May 24, 1916.

Rockbridge, Ohio, July 1, 1916.

♀ Buckeye Lake, Ohio, June 24, 1917.

♂ ♀ Cedar Point, Ohio. Ohio. (W. H.)

In central Ohio this species is usually found only near water, very often on grass which overhangs the water. Near the shore of Lake Erie, however, it lives in trees and on buildings often at a considerable height.

**Tetragnatha laboriosa** Hentz. (E).

♂ ♀ Columbus, Ohio, June.

♂ ♀ Guernsey County, Ohio, June 16, 1916.

♂ ♀ Ohio. (W. H.).

♂ ♀ Rockbridge, Ohio, May 27, 1916.

♀ Buckeye Lake, Ohio, June 24, 1917.

This is one of the commonest of the meadow and grassland forms. Its webs are built high up in the tops of the tall grasses. It matures early in June.

## EPEIRIDÆ.

**Acrosoma redivianum** McCook.

♀ Bainbridge, Ohio, August 17, 1917.

♀ Rockbridge, Ohio.

Apparently rather rare in Ohio. The webs are slung between trees or branches four to six feet above the ground in open woods.

**Acrosoma gracilis** (Walckenaer). (E).

♂ Rockbridge, Ohio, June 22, 1914.

♀ Ohio. (W. H.).

Females abundant in the late summer in dry beech, pine and oak woods. The webs are usually about breast high and connected to the supports by very long tough guy-lines.

**Acrosoma spinea** (Hentz). (E).

♂ Rockbridge, Ohio, July 1, 1916.

♂ ♀ Columbus, Ohio, July 7, 1914.

♀ Ohio. (W. H.)

On low weeds in open places and in open woods where there is plenty of light. Widely distributed, but never very abundant.

**Argiope aurantia** Lucas. (E).

One of the most familiar and striking meadow spiders. Universally distributed. The web is placed low in thick grass or weeds. The nearly mature female feeds very largely on grasshoppers. The males mature in July when both sexes are small and inconspicuous. After mating the female grows to a very large size.

**Argiope trifasciata** (Forsk.). (E).

♂ Winterset, Ohio, September 17, 1915.

♂ ♀ Columbus, Ohio, August-September.

Ohio. (W. H.)

This is fully as common and widely spread as the preceeding, but is less conspicuous. It lives in the same situations and matures somewhat later.

**Cyclosa conica** (Pallas). (E).

♂ Loudonville, Ohio, June 6, 1915.

♂ Rockbridge, Ohio, May 27, 1916.

Taken in hemlock woods. The webs are usually slung between tree trunks five or six feet above the ground.

**Cyclosa turbinata** McCook. (E).

♂ Rockbridge, Ohio, July 1, 1916.

♀ Ohio. (W. H.)

This species has been found only below cliffs where it builds its small orb web in weeds in the wettest situations. It seems to prefer places where a fine mist falls on it or around it.

**Epeira attestor** (Petrunkévitch). (E).

♀ Rockbridge, Ohio, July 18, 1916.

**Epeira angulata** Clerck. (E).

This species is closely related to *cavatica* and is found in similar situations.

**Epeira cavatica** (Keyserling). (E).

♂ Sugar Grove, Ohio, July 4, 1915.

Rockbridge, Ohio, October, 1913.

*E. cavatica* in Ohio seems to be limited to the faces of overhanging cliffs. Mr. Emerton's comments on these specimens are interesting: "It was first described from Kentucky caves, but here in New England it is a northern species, living in great abundance on piazzas, in wagon sheds, and on barns all over Maine, New Hampshire and Vermont, coming south into northern Massachusetts, but not around Boston or further south. Westward I have it from Spokane."

**Epeira domicilorum** Hentz. (E).

♀ Columbus, Ohio, September, 1916.

Rather common on porches and barns in Columbus.

**Epeira displicata** Hentz. (E).

♂ Rockbridge, Ohio, May 27, 1916.

♀ Loudonville, Ohio, June 6, 1915.

♂ Marietta, Ohio. (W. H.)

**Epeira ectypa** Keyserling. (E).

♀ Rockbridge, Ohio, October 4, 1914.

**Epeira insularis** Hentz. (E).

♂ Bainbridge, Ohio, August 17, 1917.

Cedar Point, Ohio.

Ohio. (W. H.)

♂ ♀ Columbus, Ohio, September 18, 1917.

♀ Rockbridge, Ohio, June 1914, and ♂ September 30, 1917.

A very common woodland form. Found in low bushes in moist woods though usually in rather light situations.

**Epeira juniperi** Emerton. (E).

♂ ♀ Rockbridge, Ohio, June 18, 1916.

Taken while beating branches of hemlock.

**Epeira patagiata** Clerck. (E).

♂ Rockbridge, Ohio, June, 1914.

Erie County, Ohio, 1915.

**Epeira placida** Hentz. (E).**Epeira prompta** Hentz. (E).

Rockbridge, Ohio, May 27, 1916.

♂ Buckeye Lake, Ohio, June 24, 1917.

♂ Columbus, Ohio, August, 1914.

♀ Cedar Point, Ohio.

**Epeira sclopetaria** (Clerck). (E). (B).

♂ ♀ Cedar Point, Ohio, June 28, 1913.

Very abundant on buildings near Lake Erie.

**Epeira strix** Hentz. (E).

♂ N. Kenova, Ohio, August 24, 1915.

♂ Rockbridge, Ohio, July 27, 1917.

♂ ♀ Buckeye Lake, Ohio, June 24, 1917.

**Epeira thaddeus** Hentz. (E).

♀ Rockbridge, Ohio, October 4, 1914.

♀ Columbus, Ohio, August, 1914.

**Epeira trifolium** Hentz. (E).

Widely distributed.

Very common over the state. It seems to prefer tall weeds, particularly those which grow on the river flood plains.

**Epeira trivittata** Keyserling. (E).

♂ ♀ Delaware, Ohio, June 6, 1916.

♂ ♀ Buckeye Lake, Ohio, June 24, 1917.

♂ ♀ Cedar Point, Ohio, July 21, 1910.

♂ ♀ Bainbridge, Ohio, August 17, 1917.

This spider is almost always present in tall grass, weeds, reeds and bushes.

**Epeira verrucosa** Hentz. (E).

♀ Bainbridge, Ohio, August 17, 1917.

♀ Rockbridge, Ohio, August, 1915.

♀ Columbus, Ohio, July, 1917.

♂ ♀ Ohio. (W. H.)

This striking species is rather common in the southern part of the state. It builds its webs very high up between the trees in the thick moist woods. The webs sometimes have guy-lines fifteen or twenty feet long.

**Epeira vulgaris** Hentz.

♀ Brinkhaven, Ohio, September 15, 1917.

**Glyptocranium cornigerum** (Hentz). (E).

♀ Columbus, Ohio, November 1, 1915.

**Leucauge hortorum** (Hentz). (E).

♂ ♀ Rockbridge, Ohio, June 19, 1914.

♀ Cedar Point, Ohio, June 27, 1913.

This striking green and silver spider is rather strictly limited to moist woodland. It is widely distributed in the state.

**Mangora gibberosa** (Hentz). (E).

♂ ♀ Bainbridge, Ohio, August 17, 1917.

♂ ♀ Columbus, Ohio, August, 1917.

♂ ♀ Guernsey Co., 1916.

Erie Co., 1915.

Very common in the tops of grass and grain.

**Meta menardi** (Latrielle) (E).

Immature ♂ ♀ Bainbridge, Ohio, August 17, 1917.

A cave species. Found in dark wet situations along cliffs, or in the entrances of caves.

**Metepeira labyrinthea** Hentz. (E).

♂ ♀ Cedar Point, Ohio, July, 1915.

♀ Rockbridge, Ohio, October 4, 1914.

♂ ♀ Columbus, Ohio.

Commonly found in the branches of dead trees in the edges of woods all over the state.

**Plectana stellata** Walckenaer. (E).

♀ Cedar Point, Ohio, August 11, 1910.

♀ Guernsey Co., Ohio, 1916.

♀ Columbus, Ohio, September, 1916.

♀ Rushville, Ohio. (W. H.)

**Singa keyserlingi** McCook. (E).

♀ Cedar Point, Ohio, June 27, 1913, and August 13, 1910.

This species makes a small orb web in the tops of the dune grass (Andropogon). During the day it stays in the hollow stems of the dead grass. This form is probably not the same as *S. pratensis*.

**Theridiosoma gemmosum** (L. Koch). (E).

♂ ♀ Sugar Grove, Ohio, July, 1915.

This form may always be found in the wet moss on the faces of cliffs and in other wet situations in the deep woods.

## ULOBORIDÆ.

**Hyptiotes cavatus** (Hentz.) (E).

♀ Rockbridge, Ohio, October 4, 1914.

♂ ♀ Sugar Grove, Ohio, September 10, 1917.

Found in dark woods and ravines. Its triangle web is usually built in branches a few feet above the ground.

**Uloborus plumipes** Lucas (E).

♂ ♀ Sugar Grove, Ohio, July 15, 1915.

♂ ♀ Columbus, Ohio, June 24, 1916.

## THOMISIDÆ.

**Coriarachne versicolor** Keyserling. (E).

♂ ♀ Columbus, Ohio, June 13, 1917.

♀ Cedar Point, Ohio, July 24, 1913.

♀ Buckeye Lake, Ohio, June 24, 1917.

Very abundant on or under the bark of trees.

**Misumena celer** (Hentz).

♀ Marietta, Ohio. (W. H.)

**Misumena vatia** (Clerck). (E).

♂ Rockbridge, Ohio, May 27, 1916.

♀ Cedar Point, Ohio, August, 1913.

**Misumessus asperatus** (Hentz). (E).

♂ ♀ Columbus, Ohio, May 24, 1916.

**Philodromus bidentatus** Emerton. (E).

♂ Rockbridge, Ohio, June 18, 1916.

♂ ♀ Cedar Point, Ohio.

**Philodromus canadensis** Emerton.

Canadian Entomologist, 1917, p. 270.

♂ Cedar Point, Sandusky, Ohio, June, 1915.

Emerton states that this species is common about Montreal and Ottawa and westward to Lake Nipigon and Prince Albert.

**Philodromus macrotarsus** Emerton. (E).

Canadian Entomologist, August, 1917, p. 271.

♂ Columbus, Ohio, September 1, 1917.

**Philodromus minutus** Banks.

♂ Buckeye Lake, Ohio, June 24, 1917.

**Philodromus ornatus** Banks. (E).

♀ Cedar Point, Ohio, August, 1913.

**Philodromus pictus** Emerton. (E).

♂ Loudonville, Ohio, June 6, 1915.

**Philodromus vulgaris** Hentz. (E).

♀ Buckeye Lake, Ohio, June 24, 1917.

♀ Ohio. (W. H.)

**Runcinia aleatoria** (Hentz). (E).

♂ Guernsey Co., Ohio, 1916.

♀ Columbus, Ohio, August 23, 1917.

**Synema parvula** Hentz. (E).

Young, Cedar Point, Ohio.

This southern species occurs on the vegetation of the hot, dry sand dunes.

**Thanatus coloradensis** Keyserling.

Cleveland, Ohio, December 1915.

One specimen was collected by Emerton in the railroad restaurant. In a note in the Entomological News in 1917, he sums up situation in regard to this spider in the east as follows: "So it appears that we have here a western spider that takes readily to life about houses and is spreading across the country."

**Thanatus lycosoides** Emerton. (E).

♂ Rockbridge, Ohio, October 4, 1914.

♀ Columbus, Ohio, March 20, 1918.

**Tibellus duttoni** (Hentz). (E).

♀ Cedar Point, Ohio, 1913.

**Tibellus oblongus** (Walckenaer).

♀ Erie Co., Ohio, 1915.

**Tmarus caudatus** (Hentz). (E).

♀ Rockbridge, Ohio, April 10, 1915.

**Xysticus fraternus** Banks. (B).

♂ ♀ Columbus, Ohio, June 12, 1916.

Rockbridge, Ohio, June 11, 1916.

This species lives on the ground among the leaves in woodland.

**Xysticus gulosus** Keyserling. (E).

♂ ♀ Columbus, Ohio, October 20, 1917.

♀ Rockbridge, Ohio, June, 1914.

Very abundant in grassland. In the fall this species with stomachosus makes up a large part of the ballooning individuals.

**Xysticus limbatus** Keyserling. (E).

♀ Cedar Point, Ohio, August, 1913.

**Xysticus nervosus** Banks. (E).

♂ ♀ Columbus, Ohio, October 28, 1917.

♂ ♀ Rockbridge, Ohio, October, 1913.

**Xysticus quadrilineatus** Emerton. (E).

♀ Rockbridge, Ohio, October, 1913.

**Xysticus stomachosus** Emerton. (E).

♀ Buckeye Lake, Ohio, June 24, 1917.

♀ Columbus, Ohio, June, 1917.

♂ ♀ Marietta, Ohio. (W. H.)

**Xysticus triguttatus** Keyserling.

♂ ♀ Guernsey County, Ohio, June 16, 1916.

♂ Rockbridge, Ohio, June, 1914.

Common in grassland.



## PISAURIDÆ.

**Dolomedes idoneus** Montgomery = **vernalis** Emerton. (E).

♂ ♀ Rockbridge, Ohio, June 12, 1915.

♀ Columbus, Ohio, June, 1917.

♂ ♀ Ohio. (W. H.)

This large spider is rather common along river courses where it lives under loose bark and under logs. Where cliffs occur near streams it becomes a distinct cliff species. Mating occurs early in June. The males which are smaller than the females, die and the females grow to be very large by midsummer.

**Dolomedes sexpunctatus** Hentz. (E).

♂ ♀ Columbus, Ohio, June 25, 1916.

♂ ♀ Malta, Ohio, August 12, 1915.

Common around permanent ponds.

**Dolomedes urinator** Hentz. (E).

♂ Columbus, Ohio, April 4, 1913.

♀ Rockbridge, Ohio, September 18, 1915.

♀ New Lexington, Ohio. (W. H.)

These are probably the largest spiders which occur in Ohio. Common in the ravines of Hocking County, on logs overrunning streams.

**Pisaura brevipes** Emerton. (E).

Trans. Conn. Acad. Arts and Sci., Vol. 16, p. 400.

♀ Sugar Grove, Ohio.

♀ Ashtabula Co., Ohio.

**Pisaurina undata** (Hentz). (E).

♀ Delaware, Ohio, June 24, 1916.

Young, Columbus, Ohio, June 10, 1914.

♀ Rockbridge, Ohio, July 27, 1917.

Marietta, Ohio. (W. H.)

The young during the summer are found on vegetation everywhere. One specimen from a cave was nearly white, but was otherwise normal.

## LYCOSIDÆ.

**Allocosa rugosa** (Keyserling). (E).

♂ ♀ Columbus, Ohio, June 12, 1917.

♂ ♀ Rockbridge, Ohio, June, 1917.

Running on the ground in warm, dry situations.

**Lycosa avara** Keyserling. (E).

♂ ♀ Rockbridge, Ohio, October, 1913.

**Lycosa baltimoriana** (Keyserling). (E).

♀ Cedar Point, Ohio, August, 1913.

**Lycosa carolinensis** Walckenaer. (E).

♂ ♀ Columbus, Ohio, October 13, 1917.

♂ ♀ Ohio. (W. H.)

Probably the commonest burrowing spider in Ohio. It makes its burrows in lawns, pastures, and the edges of fields.

**Lycosa (Trochosa) cinerea** (Fabricius). (E).

- ♂ ♀ Cedar Point, Ohio, July 21, 1910.  
 ♀ Marietta, Ohio. (W. H.)

This spider is at its optimum in the hot sands of the lake shore. Here it burrows into the loose sand, sometimes to a depth of six inches during the day. At night it emerges and hunts crickets and other insects.

**Lycosa communis** Emerton. (E).

- ♂ Buckeye Lake, Ohio, June 24, 1917.  
 ♂ Columbus, Ohio, June 28, 1918.  
 ♀ Marietta, Ohio. (W. H.)

**Lycosa frondicola** Emerton. (E).

- ♀ Rockbridge, Ohio, April 28, 1912.  
 ♀ Cedar Point, Ohio, July 21, 1910.

**Lycosa kochii** Keyserling. (E).

- ♀ Delaware, Ohio, June 18, 1916.  
 ♀ Columbus, Ohio, November 10, 1917.

**Lycosa lenta** Hentz. (E).

- ♀ Delaware, Ohio, June 30, 1917.  
 ♂ ♀ Columbus, Ohio.

**Lycosa (Geolycosa) missouriensis** (Banks). (E).

- ♀ Cedar Point, Ohio, July 20, 1903.

One of the burrowing spiders which lives in sandy regions. Widely distributed in Eastern U. S.

**Lycosa nidicola** Emerton. (E).

- ♀ With eggs. Cedar Point, Ohio, July 12, 1903.  
 Widely distributed. Hibernates as adult. Common.

**Lycosa pratensis** (Emerton). (E).

- ♀ Cedar Point, Ohio, August, 1913.

**Lycosa punctulata** Hentz. (E).

- ♀ Rockbridge, Ohio, September, 1913.  
 ♂ Rushville, Ohio. (W. H.)

**Lycosa scutulata** Hentz. (E).

- ♂ ♀ Rockbridge, Ohio, September 30, 1917.  
 ♂ ♀ Ohio. (W. H.)  
 ♂ N. Kenova, Ohio, August 24, 1915.

Very abundant in the dry upland prairies in the southern part of the state.

**Lycosa tigrina** McCook. (E).

- ♂ ♀ Rockbridge, Ohio, September 30, 1917.

**Pardosa albopatella** Emerton. (E).

- ♂ Rockbridge, Ohio, June 18, 1916.  
 ♂ ♀ Columbus, Ohio, June 11, 1917.

Abundant in open ground early in June.

**Pardosa glacialis** (Thorell). (E).

- ♀ Buckeye Lake, Ohio, July 1, 1917.

A distinctly northern species. Found on the sphagnum bog in the center of Buckeye Lake.

**Pardosa lapidicina** Emerton. (E).

♂ ♀ Columbus, Ohio, June-July, 1916, Sandusky, Ohio.

Found on hot stones and clay banks near streams all over the state.

**Pardosa nigropalpis** Emerton. (E).

♂ ♀ Columbus, Ohio, June 11, 1917.

♂ ♀ Rockbridge, Ohio, June, 1914.

Very abundant in open ground in June.

**Pardosa tachypoda** Emerton.

♀ Erie County, Ohio, 1915.

**Pirata minuta** Emerton. (E).

♂ Brinkhaven, Ohio, June 5, 1915.

♀ Columbus, Ohio, September 8, 1917.

**Pirata montana** Emerton. (E).

♂ ♀ Brinkhaven, Ohio, June 6, 1916.

**Pirata sylvestris** Emerton. (E).

♂ ♀ Buckeye Lake, Ohio, July 21, 1917.

**Schizogyna bilineata** (Emerton).

♀ Buckeye Lake, Ohio, June 24, 1917.

**Schizogyna ocreata** (Hentz). (E).

♂ Marietta, Ohio. (W. H.)

♂ ♀ Columbus, Ohio, June 13, 1917.

♂ ♀ Rockbridge, Ohio, June, 1914.

Very abundant in fields and open woods.

**Schizogyna relucens** (Montgomery). (E).

♂ Columbus, Ohio, October 1, 1915.

♂ Sugar Grove, Ohio, July 4, 1915.

## OXYOPIDÆ.

**Oxyopes salticus** Hentz. (E).

♂ ♀ Rockbridge, Ohio, July 27, 1916.

♀ Guernsey Co., Ohio, July 16, 1916.

This is a southern species and does not appear to occur north of Guernsey Co. Found in the upland prairie vegetation.

## ATTIDÆ.

**Attidops youngi** (Peckham).

♂ ♀ Brinkhaven, Ohio, September 15, 1917.

♀ Rockbridge, Ohio, September 10, 1917.

Several individuals were found crawling slowly on the face of cliffs about two miles north of Brinkhaven. One female was taken under hemlock bark at Rockbridge.

**Dendryphantes capitatus** (Hentz). (E).

♂ ♀ Columbus, Ohio, June 12, 1916.

♂ ♀ Buckeye Lake, Ohio, June 24, 1917.

♀ Cedar Point, Ohio.

♀ Rockbridge, Ohio.

Very common on grass and weeds in fields and at the edge of woods.

**Dendryphantes castaneus** (Hentz). (E).

♀ Buckeye Lake, Ohio, June 24, 1917.

**Dendryphantes militaris** (Hentz). (E).

♂ Rockbridge, Ohio, July 1, 1916.

♂ ♀ Guernsey Co., Ohio, June 16, 1916.

♂ ♀ Buckeye Lake, Ohio, September 13, 1913.

♂ Marietta, Ohio. (W. H.)

**Fuentes lineata** (C. Koch). (E).

♀ Buckeye Lake, Ohio, June 24, 1917.

♀ Rockbridge, Ohio, October 4, 1914.

**Habrocestum parvulus** (Banks). (E).

♂ ♀ Rockbridge, Ohio, May 27, and June 18, 1916.

**Habrocestum pulex** (Hentz). (E).

♂ ♀ Cedar Point, Ohio, August, 1913.

Columbus, Ohio, June 9, 1916.

Buckeye Lake, Ohio, June 24, 1917.

Brinkhaven, Ohio, June 6, 1915.

**Homalattus cyaneus** (Hentz). (E).

♂ Columbus, Ohio, July, 1916.

**Hycitia pikei** Peckham. (E).

♂ ♀ Cedar Point, Ohio.

Usually taken on cat-tails.

**Icius hartii** Emerton. (E).

♀ Buckeye Lake, Ohio, June 24, 1917.

**Maevia vittata** (Hentz). (E).

♂ ♀ Columbus, Ohio, May 23, 1916.

♂ Rockbridge, Ohio, June 22, 1914.

Widely distributed. Usually found on the ground or on low vegetation.

**Marpissa binus** (Hentz).

♂ ♀ Gypsum, Ohio, August 25, 1914.

**Marpissa undata** (DeGeer). (E).

♂ ♀ Gypsum, Ohio, August 25, 1914.

♂ ♀ Ohio. (W. H.)

♀ Buckeye Lake, Ohio, June 24, 1917.

On fences and bark of trees.

**Myrmarachne albocinctus** (C. Koch). (E).

♂ Rockbridge, Ohio, June 22, 1914.

Much like an ant in appearance though not usually associated with ants.

**Parnaenus (Phidippus) chryseus** Peckham. (E).

♂ ♀ Sugar Grove, Ohio, July 4, 1915.

♀ Columbus, Ohio.

The specimen taken at Columbus was wintering in a curled leaf on a low branch. A southern species.

**Pellenes agilis** (Banks). (E).

♂ Cedar Point, Ohio, July 8, 1903.

**Pellenes borealis** (Banks). (E).

♂ ♀ Cedar Point, Ohio, 1913.

♂ Columbus, Ohio, May 24, 1916.

**Pellenes coronatus** (Hentz). (E).

♂ Brinkhaven, Ohio, June 6, 1915.

It is interesting to note that this southern species is found in the same region in which occurs the most northern stand in Ohio of the southern pines, *Pinus rigida* and *Pinus virginiana*.

**Pellenes hoyi** Peckham. (E).

♂ ♀ Delaware, Ohio, June 28, 1916.

**Phidippus audax** (Hentz). (E).

Common all over the state. Winters half grown and matures in May or June. The three spots on the abdomen of the young are orange; these become white in the adult.

**Phidippus insignarius** (C. Koch). (E).

♂ ♀ Rockbridge, Ohio, June 12, 1915.

**Phidippus mccooki** (Peckham). (E).

♂ ♀ Guernsey Co., Ohio, September 2, 1916.

**Phidippus multiformis** Emerton. (E).

Very common over the state. It is found in grassland and in open woods. Matures in July and August.

**Phidippus mystaceus** (Hentz).

♂ ♀ Ohio. (W. H.)

**Phidippus putnami** (Peckham).

♂ Columbus, Ohio, August 20, 1917.

Urbana, Ohio. (P.)

**Phidippus whitmani** Emerton. (E).

♂ Columbus, Ohio, June 1, 1914.

♂ Wooster, Ohio, June 6, 1915.

**Phlegra leopardus** (Hentz).

♂ ♀ Marietta, Ohio. (W. H.)

**Salticus senicus** (Clerck). (E).

Common on buildings and fences everywhere. Matures early in June.

**Sittacus palustris** (Peckham).

♂ Flint, Ohio, (North of Columbus), July 4, 1917.

**Synemosyna picata** Hentz. (E).

♂ Columbus, Ohio, June 24, 1916.

**Synemosyna formica** Hentz. (E).

♂ ♀ Brinkhaven, Ohio, June 6, 1915.

♂ Rockbridge, Ohio, July 1, 1916.

**Synemosyna scorpiona** Hentz. (E).

♀ Buckeye Lake, Ohio, June 24, 1917.

Marietta, Ohio. (W. H.) Ohio. (P.)

**Thiodina puerpera** (Hentz). (E).

♂ ♀ Rockbridge, Ohio, June 12, 1915, and June 18, 1916.

A distinctly southern form. Taken in beating trees.

**Tutelina elegans** (Hentz). (E).

♂ ♀ Delaware, Ohio, June 28, 1916.

♂ ♀ Cedar Point, Ohio, June 19, 1913.

**Tutelina (Icius) formicaria** (Emerton). (E).

♂ Sugar Grove, Ohio, July 15, 1915.

♀ Rockbridge, Ohio, September 30, 1917.

A very striking spider. One from the face of a cliff.

**Wala mitrata** (Hentz). (E).

♂ Rockbridge, Ohio, July 18, 1916.

**Wala palmarum** (Hentz). (E).

♂ ♀ Buckeye Lake, Ohio, September 13, 1913.

♂ ♀ Brinkhaven, Ohio, June 6, 1915.

**Zygoballus bettini** Peckham. (E).

♂ ♀ Columbus, Ohio, May 24, 1916.

**Zygoballus sexpunctatus** (?) (Hentz). (E).

♂ ♀ 1916.